



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|----------------------------|------------------|
| 10/691,115 | 10/21/2003 | Paul Andrys | SK00002C1 (00CXT0656C1) | 5326 |
| 34408 | .7590 | 06/25/2007 | EXAMINER | |
| THE ECLIPSE GROUP 10605 BALBOA BLVD., SUITE 300 GRANADA HILLS, CA 91344 | | | NGUYEN, KHANH V | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2817 | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 06/25/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/691,115

Applicant(s)

ANDRYS ET AL.

Examiner

Khanh V. Nguyen

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05/29/07.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 is/are allowed.
- 6) ☒ Claim(s) 11-14 and 18-21 is/are rejected.
- 7) ☒ Claim(s) 15-17 and 22-27 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

Applicant's arguments filed on May 29, 2007 have been fully considered but they are not persuasive. Note, applicant's representative indicated claim 11 should also be allowed for the same reasons as claim 1. However, in claim 1, applicant amended "bias current" to "constant bias current" while there is no amendment made for claim 11 regarding the recited "bias current". As such, it is suggested "bias current" discloses in claims 11, 14 and 20 should be replaced with "constant bias current".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11, 13, 14, 18, 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Sowlati et al. (6,300,837).

Regarding claim 11, Sowlati et al. (Fig. 2) disclose a power amplifier circuit comprising: an at least one resistor (128); a capacitor (134) coupled to the at least one resistor (128); a bias boosting voltage can be read as a bias voltage for generating a bias input terminal connected to the resistor (128); and an at least one transistor (123) connected to the at least one resistor (128) by an electrical path (line connected one end of resistor (128) to the base of transistor (123)) resulting in as bias current when the bias voltage is applied.

Regarding claim 13, wherein a linear relationship between the bias current and the bias voltage should be inherently seen since they are corresponding to one another.

Regarding claim 14, wherein components (124, 130, 132) can be read as a circuit claimed.

Regarding claim 18, wherein Fig. 2 discloses a single stage amplifier (100).

Regarding claim 19, wherein Fig. 3 discloses a multi-stage amplifier (142, 100).

Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Asazawa (5,150,076).

Asazawa (Fig. 3) discloses an amplifier circuit comprising: a bias generating circuit including a constant current source (7) for generating a constant bias current, a transistor (Q4) for receiving an input bias voltage; and generating a bias current by a resistor (16) connected to transistor (Q4) being in receipt of the input bias voltage from the bias generating circuit.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sowlati et al.

Sowlati et al. disclose the claimed invention except a clamp circuit having the connection/function thereof. However, it is well known in the art in order to limit current flow in a circuit, a clamp circuit should be utilized, wherein clamp circuit is usually a diode(s)/diode connected transistors. Therefore, providing a clamp circuit in the electrical path claimed would have been obvious to a person having ordinary skill in the art.

Allowable Subject Matter

Claims 1-10 are allowed.

Claims 15-17, 22-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-10 call for, among others, a transistor connected to the resistor by an electrical path resulting in a constant bias current when the bias voltage is present.

Claims 15-17 call for, among others, wherein the at least one resistor is in a first material in a substrate and at least one component of the plurality of components is a second material in the substrate and different from the first material.

Claims 22, 23, call for, among others, step of determining if the input bias voltage is below a predetermined threshold.

Claims 24-26 call for, among others step of mirroring the bias current to a reference current by a predetermined ratio.

Claim 27 calls for, among others, a feedback loop having the functions claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached Monday to Friday from 8:00 AM – 6:00 PM EST.

Art Unit: 2817

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Khanh Van Nguyen/
Primary Examiner, Art Unit 2817